

Title (en)

Air filter. method of manufacturing air filter, local facility, clean room, treating agent, and method of manufacturing filter medium

Title (de)

Luftfilter, Verfahren zur Herstellung von Luftfiltern, örtlichen Anlagen, Reinraumanlagen, Behandlungen und Verfahren zur Herstellung eines Filtermediums

Title (fr)

Filtre à air ,son procédé d élaboration traitement de locaux et de salles blanches, et procédé de fabrication de matériaux pour filtres

Publication

EP 1291065 A3 20040114 (EN)

Application

EP 02027664 A 19960725

Priority

- EP 96925073 A 19960725
- JP 19209095 A 19950727

Abstract (en)

[origin: EP0785013A1] A material not releasing gaseous organic substances during use is used as a filter medium and a sealing material for tightly sealing between the medium and a frame. Specifically, a synthetic paraffin not containing an aliphatic hydrocarbon having not more than 19 carbon atoms or less is used as a non-silicone type water repellent contained in a treatment agent for forming fibers into a cloth-like filter medium. A carboxylic acid ester having 400 or more molecular weight is used as a plasticizer and a phenolic compound having 300 or more molecular weight is used as an antioxidant to be added to the treatment agent and the sealing material. This enables that the gaseous organic substances are not present in a clean room, a semiconductor production apparatus or the like. Further, if the filter medium and the sealing material are formed of a material not releasing organic phosphorus compounds and boron compounds in the air, a clean room and a local facility particularly suitable for use in the production of semiconductors are provided.

IPC 1-7

B01D 46/10; B01D 39/14

IPC 8 full level

B01D 39/08 (2006.01); **B01D 39/14** (2006.01); **B01D 46/06** (2006.01); **B01D 46/10** (2006.01); **D04H 1/42** (2012.01); **D06M 13/02** (2006.01); **D06M 13/11** (2006.01); **D06M 13/148** (2006.01); **D06M 13/224** (2006.01); **D06M 15/227** (2006.01); **D06M 15/507** (2006.01); **F24F 3/16** (2006.01); **F24F 13/28** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [A] US 2608499 A 19520826 - STRAKA CYRIL J
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04 30 April 1996 (1996-04-30)

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